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(71) Applicant (for all designated States except US): **SMITHS GROUP PLC** [GB/GB]; 765 Finchley Road, London NW11 8DS (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **GOSTELOW, Thomas** [GB/GB]; 29 Den Lane, Springhead, Oldham OL4 4NN (GB).

(74) Agent: **FLINT, Jonathan, McNeill**; 765 Finchley Road, London NW11 8DS (GB).

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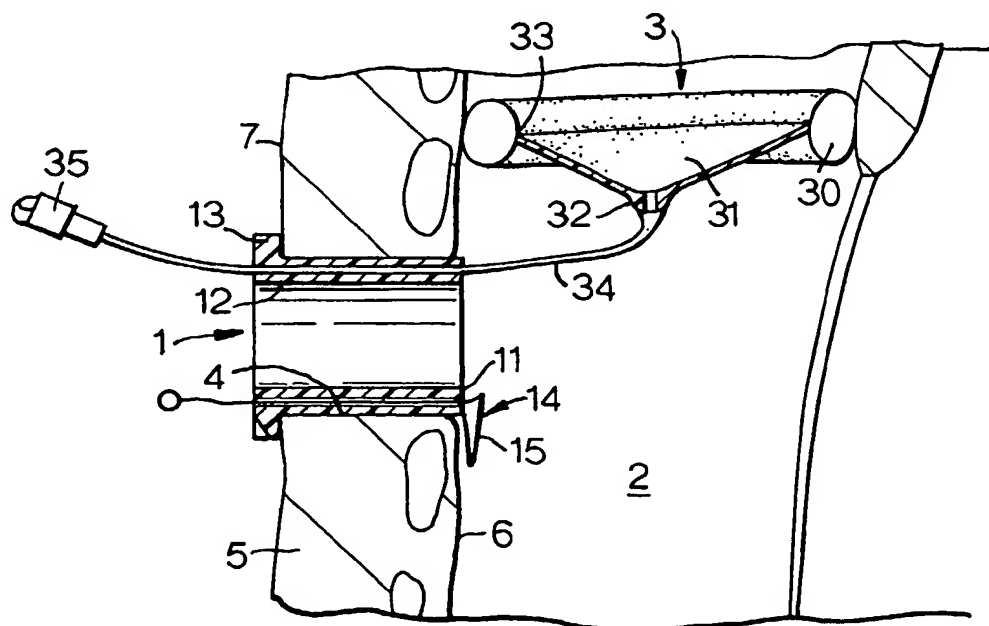
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**Declarations under Rule 4.17:**

— as to the identity of the inventor (Rule 4.17(i)) for all designations

[Continued on next page]

(54) Title: **TRACHEOSTOMY DEVICE**



(57) Abstract: A tracheostomy device has a short tube (10, 10', 10'') terminating adjacent the internal end of an opening (4) into the trachea (2). A flange (13) secures the external end of the tube and a retainer (14, 45, 59, 61) secures the internal end of the tube against the surface of the trachea (2). The device also includes a seal (3, 60), which engages the surface of the trachea (2) above the opening, and a suction passage (34) extending externally by which secretions can be removed.



— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT,

LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

— of inventorship (Rule 4.17(iv)) for US only

**Published:**

— with international search report

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24 March 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

# INTERNATIONAL SEARCH REPORT

national Application No  
PCT/GB2004/001707

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A61M16/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 889 688 A (EAMKAOW PRECHA) 17 June 1975 (1975-06-17) column 2, line 36 - column 3, line 44; figure 1	1
X	----- US 4 278 081 A (JONES JAMES W) 14 July 1981 (1981-07-14) column 4, line 52 - column 5, line 47; figures 1,2 -----	1,2,11

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

22 July 2004

Date of mailing of the international search report

- 4 01 2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Zeinstra, H

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB2004/001707

### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 12  
because they relate to subject matter not required to be searched by this Authority, namely:  
**Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery**
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

**see additional sheet**

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  
**1,2-8,11**

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Claims Nos.: 12

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,2-8,11

A tracheostomy device with a seal sealing above the opening into the trachea (problem: the secretions produced in the upper part of the trachea tend to collect on the inflated cuff which provide a site for the accumulation of bacteria).  
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2. claims: 1,9,10

A tracheostomy device with an internal retainer in the form of a displaceable member (problem: to secure the tube to the neck without the use of a strap).  
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/GB2004/001707

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3889688	A	17-06-1975	NONE	
US 4278081	A	14-07-1981	NONE	